

## PROCESS FOR PURIFICATION OF AROMATIC MONOMERS

### ABSTRACT OF THE INVENTION

5       Processes using heterogeneous adsorbents are disclosed for  
purification of aromatic monomers such as are typically produced  
by dehydrogenation of suitable benzenoid hydrocarbons, by  
passing a stream of ethylenically unsaturated aromatic monomer  
and impurities comprising at least one substituted aromatic  
10 compound having the same or similar carbon content in which a  
substituent moiety is acetylenically unsaturated, through a  
particulate bed of predominantly a support material having high  
surface area on which is dispersed at least one metallic element.  
Selective adsorption and/or complexing of the contained  
15 impurities with the adsorbent is continued until levels of a  
selected impurity in the effluent stream increase to a  
predetermined level. Thereafter the resulting bed of adsorbent is  
regenerated in the presence of a reducing gas containing  
dihydrogen to effect release of the contained impurities from the  
20 adsorbent.